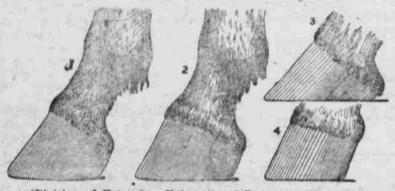


The ever-increasing interest in live, of Knoxville, who put up \$1,100 in prestock in Tennessee takes expression miums to be used as thought best by in different ways. This picture shows the committee managing the show. the cattle exhibited at last year's fat The date set for this year is January stock show. This show is held mit 22 to 26, 1917. The show is open to nually at the University of Tonnessee all counties in East Tonnessee. After Ferm, Knoxville. At it fat steers, bar, the show the farmers sell their anirows, and wethers are exhibited. The mals on the market, for which, of event is made possible by the bankers course, they have been fattening them. buy and use so-called "stock foods"

LOOK TO YOUR HORDES FEET FOR HIS STRENGTH



(Division of Extension, University of Tennessee, Knoxville.)

Foor feet make a horse valueless in a condition takes away the elasticity proportion to the weakness of the feet. from the animal's action and results in Study these pictures.

Figure 1 is given as an example of a good pastern for the fore limb. The the animal's feet. pastern is that portion for several inches just above the hoof.

Figure 2 is given as the example for Every farmer should be studying them. a good pastern on the hind limb.

Figure 3 shows a low heel. This defect is peculiar to the fore feet, and Course in Agriculture held at the Colbecause most of the weight of the legt of Agriculture, University of Tenbody falls on these feet, the low heels nessee, Knoxville. This year's course to 500 per cent by so doing. begins January 1. are easily bruised.

"PRODUCE MORE LIVE STOCK"

That Is Injunction of Editor past year. .Who Has His Ear To the Ground

LIVE STOCK INGREASE PROFITS

To Do Well the Farmer Must Study Best Methods-This is Made Possible at the Short Course in Agriculture at Knoxville.

In commenting upon the fact that a new era of agriculture is at hand for East Tennessee, the editor of the Journal and Tribune, one of Knoxville's ing farm subjects may be secured by dailies, has established a creed possible of adoption in any part of the

After expressing his pride on the section of the state in which his paper over fifty counties employing farm deis located, the editor says: the Division of Extension of the Uni-

"Now, beef cattle are bringing higher prices than ever before known in versity of Tennessee in the state agrithe history of the cattle raising industry. It behooves every farmer to put his lands to grass and produce dairy used native materials, such as shucks ployed. cattle, beef cattle, or dual purpose and dyed, wheat straw, and cat-tails, for imals. The possibilities of dairying making straw braids from which to are growing day by day in proportion make hats. The hats the girls have in about 25 herds. Several Tennesas the towns and cities increase in made for themselves and others have see counties are coming up to this population, and if the dairymen will cost from fifteen to forty cents each. but adopt scientific methods in the And they were not cheap-looking hats, production of milk and butter, organize cow-teating associations in orderto weed out the 'boarding ladies' in their barns and keep in touch with the their problems will have been solved market, according to W. A. Schoenfeld, out the unprofitable cows. In the matter of raising boef catile, specialist in marketing and rural ormuch can be accomplished through the ganization, of the Division of Extenpurchase of pure-bred sires of any of several of well-known breeds, inemding the Heretord, Shorthorn, Aberdeen Angus and Red Pollad, the dual purof Shorthorns and the Red Polled.

"The College of Agriculture of the State University, through its annual short courses, offices exceptional opportunities to farmers to learn sciontific methods in the raising, feeding, judging and selling of beef cattle and these opportunities should not be overlooked, for the new era of agriculture in East Tennessee is at hand,"

This reference to the Short Course toes to grade. in Agriculture which is held at the experience around Gleason. When they State University every winter is well placed. Every state that is building first started the shipments several up a strong agriculture is doing so years ago they got a price of \$1.00 through its Short Course This method of instruction reaches the farmers who Now they find that they must grade desire immediate assistance. The courses are planned to give that aid This year's Short Course has for its dates January 1 to February 10. Rall roads have made special rates.

LET HIM MAKE THEM AT HOME A Few Well-Known Drugs and Feeds, of the So-called "Stock Foods."

The value of a horse is in his feet. | Figure 4 shows the high heel. Such

If possible, some member of the fam-

ily should attend the annual Short

ACTS ABOUT FARMERS

AND THEIR FARMS ...

Short courses and camps for girls

One girl in Bradley county helped to

pay the mortgage on her father's

girls' club.

monstration agent.

struction from trained men.

cultural educational work.

residents of the state, free of cost, by

addressing the Division of Extension,

constration agents and so assisting

GRADE THE FARM PRODUCTS.

sion of the University of Tennessee,

as follows: Prime, 90 cents; Choice.

graded Tennessee potatoes were sell-

have paid the shippers of these pota-

This corresponds with the shippers'

bushel in bulk in the car.

The buying public demands well-

arranged products, and the farmer

who heeds the signs of the times will

their products to sell them.

watch the markets.

University of Tennessee, Knoxville.

have been held in several counties this

AND THEIR FAMILIES

drugs to be effective in the treatment of disease. They are made up largely of a "filler," which is usually some simple feed like cottonseed hulls, bran or alfalfa meal. In this is carried various roots, herbs and barks, several bone diseases. It may be a together with charcoal, sulphur, salt, part of the animal's natural make-up, etc. Sometimes coloring matter is used or it may be caused from neglect of simply to disguise the appearance of the real contents. Practically all of A knowledge of these points about them contain common salt, and it is farm animals is needed on every farm. upon this constituent that they depend for palatability.

MIX YOUR OWN

No Farmer Need To Pay the

High Prices Asked For

"Stock Tonics"

tBy Dr. C. D. Lowe, Live Stock Spe-

periment stations and the results ob-

tained which show their worthlessness

More than twenty different experi-

ments conducted with over one thou-

sand animals at twelve different sta-

tions are sufficient to show conclusive

returns. In no instance did the so-

called "foods" return their cost and

in several cases their use seemed to

interfere with the proper returns from

the other feeds fed in connection with

These substances do not qualify.

either, as real medicine, because they

contain too small a percentage of

should be generally heeded.

sion, Knoxville.)

and "stock tonics."

STOCK FEEDS

If you think you must use these "foods" for your stock, why not buy the ingredients and mix them yourself? You can save from 50 per cent

A formula, which is so nearly the average proprietary stock food that neither the owner nor his stock will

Ginger 2 por	indi
Cayenne pepper 1	66
Common salt 5	44
Wheat bran 25	**
Fenugreek 2	66
Powdered gentian 2	44
Powdered sulphur 2	et.
Potassium nitrate 2	44
Resin 2	46
Powdered charcoal 5	44

place through her activities in the While the use of the above will not put your stock on the market in thirty Eleven homes in Montgomery coun- days' less time, nor double the flow ty have installed water works under of milk, nor prevent cholera in hogs, the direction of the county home de- tuberculosis in cattle, roup in chickens or glanders in horses, it has the advantage of being less expensive than the prepared foods and will give as Over 100 meetings were held this good results. past year by boys and girls in poultry

clubs, at which they had regular in-COW TESTING PROVES POPULAR WITH FARMERS Federal and state publications treat-

> This is Explained By the Fact That Profits Increase-What Cow-Testing Associations Do.

At the beginning of 1917 there were (By C. A. Hutton, Division of Extension, University of Tennessee, Knoxville.)

Where there are enough cows to justify the action on the part of farmers, cow-testing associations are desirable. Several communities are al-Three counties in the state have ready organized and have testers em-

> Conditions for a cow-testing association are idea! when there are 400 cows standard,

A cow-testing association will do much for any dairy community.

It furnishes an exact record of production of each cow in the herd, with a record of the cost of feed consumed If farmers in Tennessee are to make and the net profit per cow. About one-State College of Agriculture in order the most from their farms, they must third of the cows in Tennessee are to keep abreast of the dairying times, grade the products they put upon the kept at a loss. It enables one to weed

The records of production enable one to feed more intelligently and more economically. It is a common practice to feed all the cows in the He points out that at a visit which herd alike. Under these conditions he made to Chicago he found Arkan- the poor cows will receive too much, pose animals being the milking strain sas sweat potatoes competing with and the good ones will not get enough. Tennossee potatoes. At that time the The proper way is to feed each cow in potatoes from Tennessee were not proportion to the amount of milk she graded. Every size possible was in the gives. When this practice is adopted containers from this state. The Arkan- it usually results in greater production sas potatoes-were selling by grades of milk at less cost for feed.

The tester is able to advise with the 75 cents; Jumbo, 60 cents. The un owner each month in regard to the most economical feed to use, and also ing for 55 cents a bushel. It would to balance the rations for the owner. The members can co-operate in buying cottonseed meal and other feed-

stuffs in carload lots, thus effecting a saving. Cow-testing associations stimulate community breeding, exchange of bulls, and a spirit of friendly rivelry, and foster a better social spirit in the

community. It enables one to tell which are the best cows from which to raise helfer calves.

The cost is a trifle as compared to the returns.

IF GIRLS ARE TO BE HEALTHY

They Must Observe Several Com mon, Every-day Rules to Protect Thomselves

ALL GIRLS SHOULD BE STRONG

Extension of the University of Ten- and salled for Newfoundland. When Put Together in Proper Amounts, Make a Feed Equal to Any Health Bulletin.

"Have you tried aleaping with your cialist of the Divisior of Extenwindows up, remembering the value of pure, frash air?" is one question Mrs. Long Warner, health specialist of the Thousands of dollars are wasted Division of Extension, University of each year in Tennessee by those who Teunessee, Knoxville, asks in a letter sent especially to the canning club girls of Tennessee. She then gives nev-Importial tests of these materials eral very well-known laws of health have been made by various state exwhich so few follow as they should,

> "I want to compliment the club girls on their good judgment concerning their feet," she continues.

> "Now, let us have a word to say about clothes. First, the majority wear the sensible low-heel shoe, which enables them to walk well and at the same time protects the nerve centers of the

> "By all means see that your shoes are comfortable in length and breadth. Do not depend upon any one but yourself to decide this. If you will remembor to keep your feet dry and legs warm, many aches and pains will be avoided that young girls of our age are apt to have. The same advice I would give you in regard to the whole body, especially in winter. As you want out-door life during these months, you must be prepared. Heavy clothing is not at all desirable. If your clothing is too tight, you will not get warmth from it. Select your underwear with a little wool in it. See that the vests have long sleeves. Avoid dressing too warmly for indoors and always have an extra wrap for outdoors. Sitting, scantily clothed, in damp skirts and wet shoes, has brought death to many a young girl. In this way many catch colds, develop phoumonia, tuberculosis and other serious Illnesses.

"One thing, girls, we are quite grateful for, and that is that Dame Fashion has decreed we shall not draw in the waist. You not only have better figures, more graceful carriage, but the retain their normal position. I do not now consider cornets harmful, for tireir chief use is to give the skirts the proper hang.

"By all means, remember the tooth. coth brush dally. Don't be afraid of the dentist. He is a faithful friend. Pay him a visit at least twice a year,

"Most diseases are preventable brough cleanliness. If we observe the simple health laws, even when we come in contact with filthy diseases. we are not apt to contract them.

"Last, but not least, know and be rue to yourself. Learn the great lesson of self-control. Cultivate a desire for knowledge. Keep the mind and body pure and clean."

Mrs. Warner has written a pub'lcation which is sent free to residents of Tennessee. This publication is called "What To Do To Keep Well." 'If you care for a copy, send your request to Division of Extension, University of Tennessee, Knoxville,

BUY MORE LIVE STOCK RATHER THAN MORE LAND

(By C. D. Lowe, Division of Extension, University of Tennessee, Knox-

That live stock pays on the farms of a near-by state may be seen by the following figures secured from eighty-one farms in one community. The farms were not selected farms, but were taken as they lay along the road.

These farms were divided into three groups according to the amount of live stock kept. One-third of the farms were found to have over 20 head each of cattle, or their equivalent (in amount of feed consumed) in hogs, sheep or other productive live stock; one-third had between 12 and 20 head each: one-third had less than 12 head, The heavier stocked farms returned a profit for the year of \$774 more than

stock. Another community selected at random showed nearly the same proportion. Live stock furnishes a way to increase the volume of farm business without increasing the farm area. Through live stock much of the poorer grades of feed may be utilized to better advantage than by selling it, in

fact much roughage that is ordinarily

wasted can be made to give good re-

turns. The manure obtained is essen-

those with the small amount of live

tial in maintaining soil fertility. The above figures offer some food for thought. If you are thinking of purchasing additional land; consider first whether the purchase money the land you already own.

Are you thinking of the seed you will need for the next season? Only the best seed will bring you the best Have you thought about it?

TOUGH OF A BABY HAND

By HELEN MERRITT.

Madeline Grahame was worn out mentalls and physically. There was nothing the matter with freexcept strain from overwork and a little nagglag worry at the back of ber brain that she had ignored for many months, but that lately had forced itself into the foreground and compelled recognition. When she found she must Health Specialist of the Division of take it sectously, she dropped her work

nesses, Knoxville, Senda Out Special - The first two days out she had deck Letter-Also Puts Out General and dining saloon to herself, and it was not until the steamer reached Halifux that the tables began to fill, Then, to her consternation, she saw the man of all others she did not wish to seethe man, in fact, from whom she was

He was at dinner and his back was toward her, so she slipped unseen from the saloon to her chair on deck to face her dileman. There was no avoiding him. That she fully rentized, but before she rould go further in her thought also heard him say:

"Right bere, steward, there seems room for another chair," and chair and rug and Peter Lansdate took posession of the space beside her.

There was no instant's silence as they looked straight into each other's

eyes and then he laughed. "Did you think I would not find you.

Madeline?"

"Not after I knew you were on board; before then, yes. You have given/me a surprise. Why dld you come?" Elie asked the question pleasantly, but she was tingling with illsuppressed irritation that she could barely control. The irritation wasagainst berself at the comfortable feeling that had come over her at the sound of his voice.

She loved him. This she acknowledged, but she felt that in marriage she would sink her personality and become, if not a nonentity, something very near to it.

"I had the feeling you were going nwny and made it my business to find out where. I reached the pler as the gungplasic was pulled aboard. Do you think it was quite fair not to tell me you were going away?" he asked ab-

ruptly. "It was a sudden decision."

He did not seem to hear her. "You ask me why I came. Because I knew you could not get away from me; that we would have ample time to thrush out our differences. Before we return organs inside the abdomen and pelvis I think our understanding of each other will be perfect. I will not revert about equally divided between mer to this talk. It is enough for you to and women of the county and visitors feel that I am here because of you."

Thereafter there was nothing personal in their conversation. So com-

A pinch of common table salt or cook- first night out from Halifax that, even long tables with places for 350 guests ing soda is very good to use with the in the pleasure of his constant com were filled more than twice each day. hts silence.

into a storm and from storm into quietly and well, heavy, depressing fog that shut her ghostly shape could be seen faintly Greenfield, through the thickness that enveloped her.

This nearness to catastrophe left Lansdale drew her away from the

She expected him to hold her close, as if she was the most precious tiding It was a great success. in the world to him. Instead, he gazed intently over her head as he put her the Greenfield way. leto a chair, and told her to stay where she was until he returned.

Chilled even in her fright, she did not mean to be left alone by the one person upon wh to she had the claim of friendship, and she followed him to the rope that separated the first from the second class passengers. Pandemonium was on the other side, and in the midst was Peter, holding a baby frightened mother. He saw Madeline and before she could offer protest had given the child into her keeping and disappeared.

and caught her flugers in its chubby

Before she realized what she was winters. doing she was holding the little face child herself.

Peter Lansdale's face and the look in his eyes made her put the baby into its mother's arms and turn quickly toward the sea. She heard him say there was no danger, but all else was lost in the sudden emotion that held or for the man she loved. Then came the memory of a warm little body ressed close against her heart. As that thought claimed her she felt an erm about her shoulders. Her face ed to that other lowered one, and she should not go into more live stock for knew that Peter Lansdale, not a career, could give her complete happi-

They were married when they renched St. Johns, and the two months she had expected to spend in wandercrop. Perhaps you could be raising ing alone about Newfoundland were good seed to sell to your heighbors. glorified by the love that passeth all

understanding. (Copyright, 1916, by the McClure Newspaper Syndicate.)

HOW ONE TOWN HELD A MEETING

Citizens of Weakley County Can Be Proud of the Work They Did

DO IT THE GREENFIELD WAY

Any Town Can Take the Leadership and Can Conduct a Genuine Educational Campaign-Greenfield's Twoday Chautauqua Sets the Standard.

(By Charles A. Keffer, Director, Division of Extension, University of Tennessee.)

Weakley county, Tennessee, is working out the problem of to-vn-and-country unity, and a November meeting in Greenfield, an enterprising little town of that county, marks a forward step. in community development. The Greenfield preachers and the Greenfield business men put their heads togother, and with the assistance of the Greenfield women, planned and carried out a two days' Farmers' Free Chantauqua. The worst thing about the affair was its name, for in the public mind the Chautauqua movement is largely a matter of entertainment, while the Greenfield meeting was in the best sense educational,

The preachers opened their churchen, and one of them presided, making an admirable leader. His church, which seats five hundred people, was crowded throughout the sessions. In the mornings there was a general program for men and women. The afternoon was devoted to separate meetings for men and women, two churches being used,

Throughout, there was inspiring music, furfished by quartettes from country churches. The subjects discussed were of the most practical nature: Co-operation, good roads, live stock, seed selection, diversified farming, the relation of the town to the surrounding community, extension work in agriculture, the rural church, education, erop rotation, soil building, canning and corn clubs, civic improvement and rest rooms, home, school and church, parent-teachers' associations, eugenics-a wide range, handled by men and women who knew what they were talking about. Two excellent sermons were delivered by visiting clergymon, and the other speakers were

An interesting feature of the Chautauqua was the dinner; it was provided by the business men and served To keep them clean is a first essectial, pletely did he ignore their talk on the ble store room was utilized and five by the ladles of the town. A big dou-The dinner was a good example of what organization can accomplish-Near Cape Race the steamer ran the great crowd was served quickly,

Who was there? Everybody; the n completely. Then, when the fog town was full of vehicles-autos, wagwas thickest, a horrible shiver ran one, buggles-hundreds of country the length of the vessel. She had people had accepted the invitation of been rammed by a steamer whose the churches and business men of

And the best part of the occasion was the get-together spirit everywhere manifest. The merchants were Madeline trembling, and when Peter not trying to trap purchasers, the preachers were not proselyting, the quiet but terrifled crowd, she clung to farmers were aloof, the women were him as if she would never let him go. not "uppity"; all came to learn, to enjoy, and to know one another better.

Let every town in Tennessee try it

BEES NEED PROTECTION ON TENNESSEE FARMS

Government Has Found That Hives Well Insulated Give Best Results in Every Case.

in his arms and frying to quiet the (By C. E. Bartholomew, Division of Extension, University of Tennessee, Knoxville.)

Tennessee in 1909 was third in the number of colonies of bees among all It was the first time she had ever of the states in the union. She does held a little child, and she looked not hold that record now. Her coldown upon it fearfully. She expected onics have been destroyed, partly by it to cry, but it poked at her eyes that dreaded disease, foul brood, and partly because the colonies have not been protected from the Tennessee

On this subject of insulation, the close to her own and humming an air chief of the bureau of entomology of she had not heard since she was a the United States Department of Agriculture has said some things that are It was then that she glanced up into | worth the attention of every Tennessee farmer.

Beckeepers have repeatedly claimed that excessive insulation is even more detrimental in winter than insufficient insulation, because of the failure of the colony to warm up on bright days. her in its grip. For the first time To test this theory, a colony was packshe was making the fight for a career ed, in the fall of 1915, with 16 inches of sawdust on all sides, top, and bottom. Temperature records were made at frequent intervals every day throughout the winter and spring. The colony remained in excellent condition brushed a rough sleeve as it was lift. In every respect throughout the winter, being little affected by high winda, and after brood rearing began it built up with great rapidity. Then, to ountinue observation on the effect of insulation on the building up of the colony, the packing was allowed to remain all summer. Except for the impossibility of manipulating the colony, it remained in excellent condition. It seems clear, therefore, that beekeepers need not fear any detrimental results from abundant insulation.